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PTO/SB/21 (08-03)
Approved for use through 08/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL			Filing D			04/29/2004					
FORM				First Na	amed Inventor		Hai-Tao Ma				
(to be u	sed for all corresp	ondence after initial	filing)	Art Unit							
•				Examin	er Name						
Total Nur	mber of Pages in	This Submission	3	Attorne	y Docket Number		ACMP	0106USA			
			ENC	LOSUR	ES (Check a	all that	apply)			
✓ Fee	e Transmittal Fo	om .		Drawing(s	;)					ance communica ogy Center (TC)	tion
	Fee Attach	ed		Licensing-	-related Papers			Appeal Communication to Board of Appeals and Interferences			s
Am	nendment/Reply			Petition			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)				
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					al Application Attorney, Revoca	tion					
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PTO/SB/17 (10-03)
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Signature

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Complete if Known				
Application Number	10/709,343			
Filing Date	04/29/2004			
First Named Inventor	Hai-Tao Ma	0.00		
Examiner Name				
Art Unit				
Attorney Docket No.	ACMP0106USA			

Date

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	<u>Large</u>	Entity	Small	Entity		
Deposit Account 50-3105	Fee Code	4.,	Code	Fee (\$)	Fee Description	Fee Paid
Number Deposit	1051	130	2051		Surcharge - late filing fee or oath	
Account North America Intellectual Property Corp.	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
The Director is authorized to: (check all that apply)	1053	130	1053	130	Non-English specification	
Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	0.00
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	<u> </u>
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month	
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month	<u></u>
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452	110	2452	55	Petition to revive - unavoidable	
	1453	1,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,330	2501	665	Utility issue fee (or reissue)	
Total Claims below Fee Paid	1502	480	2502	240	Design issue fee	
Independent 2**	1503	640	2503		Plant issue fee	ļ I
Claims - 3" =	1460	130	1460	130	Petitions to the Commissioner	
1	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	<u> </u>
Large Entity Small Entity Fee Fee	1806	180	1808		Submission of Information Disclosure Stmt	<u> </u>
Code (\$)	8021	40	8021	1 40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809		Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims	4004	770	2004	005	examined (37 CFR 1.129(b))	
over original patent 1205 18 2205 9 ** Reissue claims in excess of 20	1801 1802	770 900	2801 1802	385 900	, , , , , , , , , , , , , , , , , , , ,	
and over original patent	1002	300	1 1002	900	of a design application	
SUBTOTAL (2) (\$) 0.00	Other	fee (sp	ecify) _		<u> </u>	
**or number previously paid, if greater; For Reissues, see above	*Redu	iced by	Basic I	Filing F	ee Paid SUBTOTAL (3) (\$) 0.00	
SUBMITTED BY					(Complete (if applicable))	
Name (Print/Type) Winston Hsu	JA F	Registra	tion No	• 41.	526 Telephone 886289237350)

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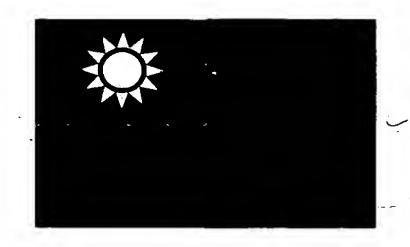
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PTO/SB/02B (11-00)
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DECLARATION — Supplemental Priority Data Sheet

Additional foreign applications:							
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy YES	Attached? NO		
092110184	Taiwan R.O.C	04/30/2003					
		-					

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



एट प्रधान प्रधान



中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE MINISTRY OF ECONOMIC AFFAIRS REPUBLIC OF CHINA

茲證明所附文件,係本局存檔中原申請案的副本,正確無訛,其申請資料如下:

This is to_certify that annexed is a true copy from the records of this office of the application as originally filed which is identified hereunder:

申 請 日:西元 2003 年 04 月 30 日 7 Application Date

申請案號: 092110184 Application No.

申 請 人: 明基電通股份有限公司 Applicant(s)

哥長

Director General



 2003
 6

 發文日期: 西元 _____ 年 ____ 月 ____ 日

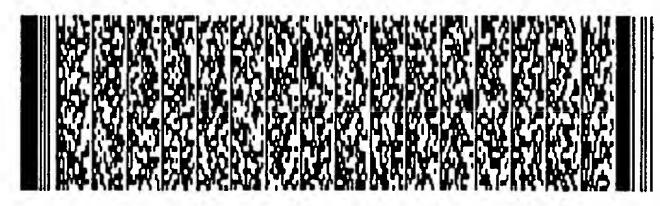
 Issue Date

發文字號: © 09220599250 Serial No.

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申請日期:	IPC分類	
申請案號:		

(以上各欄	由本局填	發明專利說明書
	中文	防震的掃描器
發明名稱	英 文	SHOCK RESISTANT SCANNER
	姓 名 (中文)	1. 馬海濤
=	姓名(英文)	1.Ma, Hai-Tao
發明人 (共1人)	國 籍 (中英文)	1. 中國大陸 CN
	住居所(中文)	1.大陸寧夏昊忠市上僑多澇河橋村一隊
	住居所(英文)	1. Shang-Chiao-To-Lao-Ho-Chiao-Tsun-Yi-Tui, Hao-Chung City, Ning-Hsia, People's Republic of China
	名稱或 姓 名 (中文)	1. 明基電通股份有限公司
	名稱或 姓 名 (英文)	1. BenQ Corporation
=	國 籍 (中英文)	1. 中華民國 TW
申請人(共1人)	住居所 (營業所) (中 文)	1. 桃園縣龜山鄉山鶯路157號 (本地址與前向貴局申請者相同)
	住居所 (營業所) (英 文)	1. No. 157, Shan-Ying Road, Kweishan, Tao-Yuan Hsien, Taiwan, R.O.C.
	代表人(中文)	1. 李焜耀
	代表人(英文)	1. Lee, Kuen-Yao
	 	



四、中文發明摘要 (發明名稱:防震的掃描器)

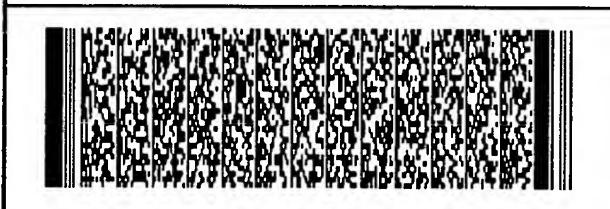
本發明提供一種掃描器,該掃描器包含有一殼體分為一上蓋與一下蓋、一設置於該上蓋與該下蓋間之軸棒。一安裝於該軸棒座上之軸棒、一掃描模組以可前後移動之方式安裝於該軸棒上、一用來固定該掃描模組之移動以及一緩衝墊,其中緩衝墊係安裝於該軸棒座與該十載。

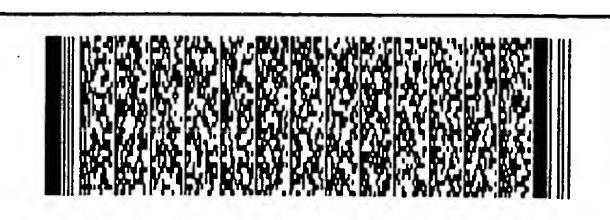
五、(一)、本案代表圖為:圖三(二)、本案代表圖之元件代表符號簡單說明

30 掃描器 32 殼體 32A 上蓋 32B 下蓋 34 輔棒座 36 輔棒 38 掃描模組 40 卡鉤

六、英文發明摘要 (發明名稱:SHOCK RESISTANT SCANNER)

A scanner is provided. The scanner has a housing containing an up-case and a low-case, a shaft seat positioned between the up-case and the low-case, a shaft set on the shaft seat, a scanner module set on the shaft, a lock for locking the scanner module, and a buffer pad. The buffer pad is set between the shaft seat and the shaft, between the shaft seat and the up-case or





四、中文發明摘要 (發明名稱:防震的掃描器)

42、44 緩衝墊

六、英文發明摘要 (發明名稱: SHOCK RESISTANT SCANNER)

the low-case, or between the lock and the scanner module.



一、本案已向			
國家(地區)申請專利	申請日期	案號	主張專利法第二十四條第一項優先權
		無	
•			•
		·	
二、□主張專利法第二十	五條之一第一項優	先權:	
申請案號:		無	
日期:		7111	
三、主張本案係符合專利;	法第二十條第一項	□第一款但書或[□第二款但書規定之期間
日期:			
四、□有關微生物已寄存為	於國外:		
寄存國家: 寄存機構:		無	
寄存日期:		•	
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寄存號碼: 「勃羽該項共作去日本	人举但 丁石中七		
□熟習該項技術者易力	ぐ獲付, 个須		

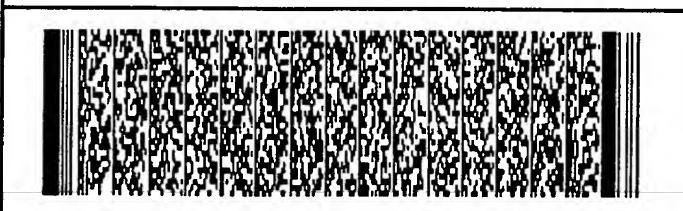
五、發明說明 (1)

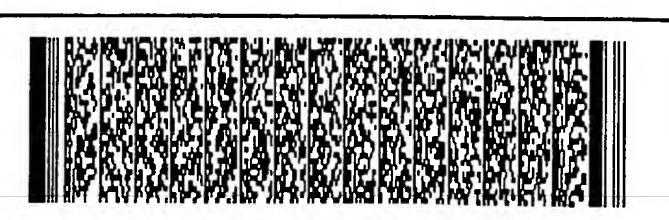
發明所屬之技術領域

本發明提供一種掃描器,尤指一種在殼體內具有緩衝設計以提供較佳防震能力之掃描器。

先前技術

習知掃描器係如圖一所示,圖一為習知掃描器 10的外視圖。掃描器 10包含有一殼體 (housing) 12、一軸棒座 (shaft-seat) 14、一軸棒 (shaft) 16、一掃描模組 (scanning module) 18以及一卡鉤 (lock) 20,其中,殼體 12分為一上蓋 (up-case) 12A與一下蓋 (low-case) 12B,而軸棒座 14係位於上蓋 12A與下蓋 12B之間,用來固定軸棒 16,掃描模組 18係以可前後移動的方式設於軸棒

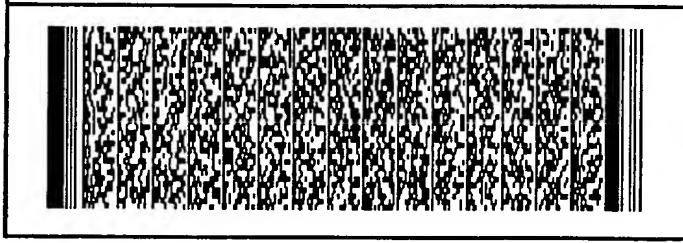


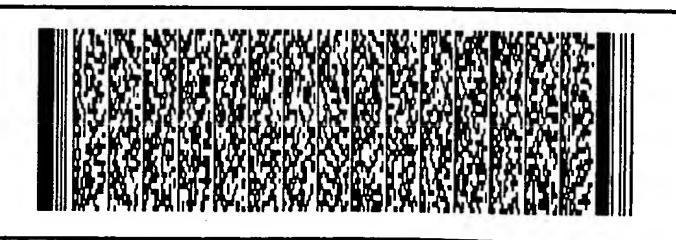


五、發明說明 (2)

16上,卡鉤 20設於上蓋 12A上,用來固定掃描模組 18。當掃描器 10進行掃描時,掃瞄模組 18會於軸棒 16上滑動而掃瞄文件,當掃描器 10結束掃描時,掃描模組 18便會移動到滑軌 16的一固定位置,成待機狀態,因此當掃描器 10沒有啟動掃描時,掃描模組 18都會停在該固定位置,使用者可以手動方式移動卡鉤 20,使卡鉤 20扣住掃描 模組 18,掃描模組 18便會被固定住而無法移動。此外模組 18,掃描模組 18便會被固定住而無法移動。此外模值 18,坍塌運掃描器 10時,也會使卡鉤 20鎖住掃描器 10的其他元件。

由於習知掃描器的內部除了上述裝置外,還有很多精密的電子裝置及元件,為了防止搬運掃描器出貨時人種造成掃描模組及其他元件的損害,在掃描器出貨時,都會在上下蓋之外再包一層防震墊(cushion)以及一層紙箱(carton),以防止在運輸過程中或出貨檢測(dropping test)時,掃描器的一些重要部件會因震動而出現損害,例如卡鉤斷裂。然而,目前電腦週邊獨的競爭越來來的例如卡鉤斷裂。然而,目前電影與備的競爭越來來的數不,為達到此間的,部分廠家傾向於使用較薄的防震墊,而防震墊的材料也使用價格較低(即緩衝效果較勝度,而防震墊的材料也使用價格較低(即緩衝效果較差)的材料,大幅減少對掃描器的保護及防震功能。一般在搬運過程中,最常遇到的撞擊是掃描器沿著垂直方向震動或摔機(如圖一所示的D方向垂直撞擊),在此情況



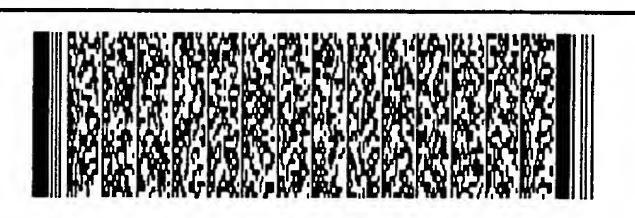


五、發明說明 (3)

發明內容

因此本發明之主要目的在於提供一種具有緩衝撞擊設計之掃描器,以解決上述習知掃描器在包裝材料變薄、緩衝力減低時可能因為撞擊而造成掃描模組損壞的問題。

本發明係提供一種掃描器,其包含一般體分為一上蓋和一下蓋、一軸棒座設於該上蓋與該下蓋之間、一軸棒安裝於該軸棒座上、一掃描模組以可移動方式安裝的該軸棒上、一用來固定該掃描模組的卡鉤以及一緩衝墊,其中該緩衝墊可安裝於該軸棒與該中蓋或該下蓋之間,或該卡鉤與該掃描模





五、發明說明 (4)

組之間。

由於本發明之掃描器係在該軸棒座和該軸棒相交處、該軸棒座和該殼體連接處或該卡鉤和該掃描與的相交處加裝該緩衝墊,因此在摔機或運輸震動時?生的衝擊力會部分被該緩衝墊所吸收,可以有效的避免由於防震墊的材料變差或厚度變薄所導致掃描模組在搬運過程中的損害。

實施方式

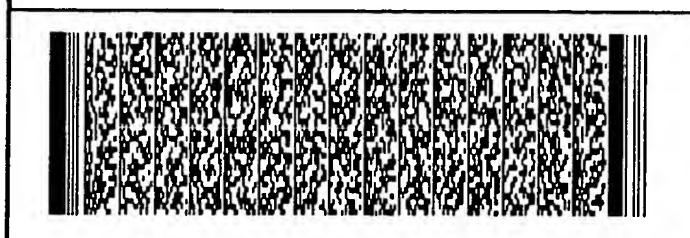


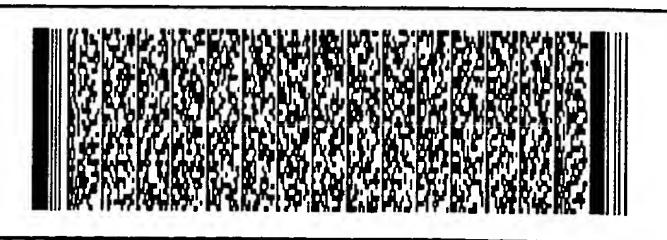


五、發明說明 (5)

模組 38會停在滑軌 36的一固定位置,因此當使用者要搬 運掃描器30時,可以手動方式移動卡鉤40,使卡鉤40扣 住掃描模組 38, 掃描模組 38會被固定住而無法移動,以 避免搬運時掃描模組 38碰撞到掃描器 30的其他元件。同 由於卡鉤 40和掃瞄模組 38之間設有緩衝墊 44,以及 軸棒 36和軸棒座 34之間也設有緩衝墊 42, 因此即使掃描 器 30在搬運時受到撞擊或摔機,其所產生的衝擊力也會 部分被緩衝墊22、44所吸收,可以有效防止由於廠商節 省成本而變更防震墊材料或厚度時所導致之衝擊力對掃 描模組38的損害。在本實施例中,卡鉤40上的緩衝墊44 可以全部或部分包覆住卡鉤40表面,也可以設於卡鉤40 的底部或者和掃瞄模組38相接觸的突出部分。此外,緩 衝墊 44也可安裝於掃瞄模組 38容納卡鉤 40之凹槽內 代上述設於卡鉤40上的方式,使卡鉤40被移動至掃瞄模 組 38之 凹槽內鎖住掃瞄模組 38時,仍然有緩衝墊 44將卡 鉤 40和掃瞄模組 30相隔開,達到減輕撞擊損害的效果。 其中要加以說明的是,軸棒座34係可以為一設置於上蓋 32A和下蓋 32B間之一獨立元件,或是為與上蓋 32A或下蓋 32B成一體結構之元件等等設計。

請參考圖四與圖五,圖四為本發明另一實施例掃描器 50的外視圖,圖五則為圖四所示掃描器 50沿 B-B'切線的剖視圖。掃描器 50包含有一上蓋 52A、一下蓋 52B、一軸棒座 54設於上蓋 52A與下蓋 52B之間、一軸棒 56、一掃



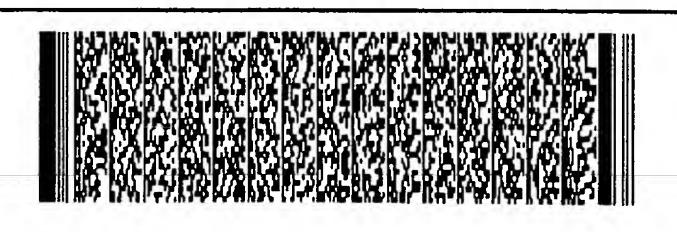


五、發明說明 (6)

描模組 58以可移動方式設於軸棒 56上、一插梢 60以及使 緩衝材料製成的三緩衝墊 62、64、66。插梢 60係 用 來 固定掃描模組58,在圖五中,插梢60並未固定於掃描器 50上,當使用者欲搬運掃描器50時,可將插梢 60經由上 蓋 52A的插梢孔 60A插入一對應之掃瞄模組凹槽 58A中,以 防止掃瞄模組 58在掃描器 50被搬運時會沿著軸棒 56前後 移動。當掃描器 50被搬運完畢進行掃瞄時,可將插梢 60 從插梢孔 60A中拔出,如此掃瞄模組 58便可自由移動,進, 行掃瞄。緩衝墊 62位於軸棒 56與軸棒座 54之間,為圓弧 狀 , 可提供軸棒 56與軸棒座 54兩者在掃描器 50經歷垂直 方向撞擊時緩衝分散撞擊力的功能。緩衝墊 64設於掃瞄 模組凹槽 58A表面,而緩衝墊 66則設於軸棒座 54與上蓋 52A之間,如同緩衝墊 62一樣,緩衝墊 64、66的作用皆為 在掃描器 50遇到撞擊時,保護其所連接的剛性材 質 緩衝減輕撞擊所產生的衝力,避免掃描器 50的損 本實施例中,緩衝墊64另可包覆於插梢60表面, 亦可在 撞擊時達到保護掃瞄模組 58等元件之功能。另一方面 如果軸棒座 54與下蓋 52B的接觸處也需要防護,則可再設 防震墊於軸棒座 54與下蓋 52B之間

相較於習知掃描器,本發明之掃描器係在軸棒座與軸棒之間、軸棒座與上蓋或下蓋之間、或掃瞄模組與卡釣(或插梢等用於固定掃瞄模組之元件)之間安裝具緩衝性質之緩衝墊或彈性體材料,有效吸收掃描器在搬運過

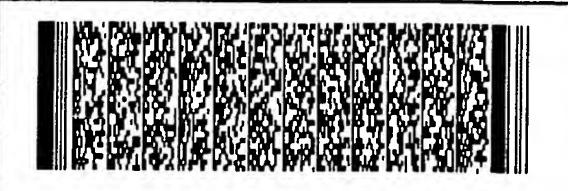




五、發明說明 (7)

程中所可能產生的撞擊力,以因應廠商為降低成本而變更防震墊或紙箱材質、厚度,減少掃描器防護。

以上所述僅為本發明之較佳實施例,凡依本發明申請專利範圍所做之均等變化與修飾,皆應屬本發明專利之涵蓋範圍。



圖式簡單說明

圖式之簡單說明

圖一為習知掃描器的外視圖。

圖二為本發明掃描器的外視圖。

圖三為圖二所示掃描器沿切線 A-A'的剖面圖。

圖四為本發明另一實施例掃描器的外視圖。

圖五為圖四所示掃描器沿B-B'切線的剖視圖。

圖式之符號說明

10、30、50 掃描器

12、32 殼體

12A、32A、52A 上蓋

12B、32B、52B 下蓋

14、34、54 軸棒座

16、36、56 軸棒

18、38、58 掃描模組

20、40 卡鉤

42、44、62、64、66 緩衝墊

58A 掃瞄模組凹槽

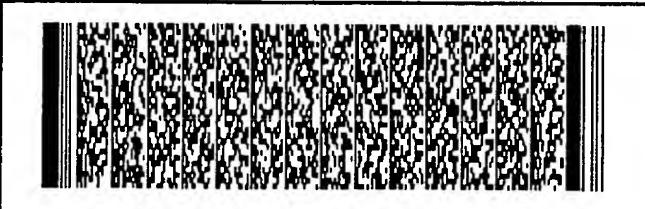
60 插梢

60A 插 梢 孔



六、申請專利範圍

- 1. 一種掃描器,其包含:
 - 一 殼體,其包含一上蓋與一下蓋;
 - 一軸棒座,設置於該上蓋與該下蓋之間;
 - 一軸棒,安裝於該軸棒座上;
- 一掃描模組,以可前後移動之方式安裝於該軸棒上;
- 一卡鉤,安裝於該殼體上,用來固定該掃描模組;以及
- 一緩衝墊,安裝於該軸棒座與該軸棒之間,或該軸棒座與該上蓋或該下蓋之間,或該卡鉤與該掃描模組之間。
- 2. 如申請專利範圍第1項所述之掃描器,其中若該緩衝墊係安裝於該軸棒座與該軸棒之間,則該緩衝墊係為弧狀之彈性體。
- 3. 如申請專利範圍第1項所述之掃描器,其中若該緩衝墊係安裝於該軸棒座與該軸棒之間,則該緩衝墊係為環狀之彈性體。
- 4. 如申請專利範圍第1項所述之掃描器,其中若該緩衝墊係安裝於該卡鉤與該掃描模組之間,則該緩衝墊係包覆於該卡鉤表面之彈性體。



六、申請專利範圍

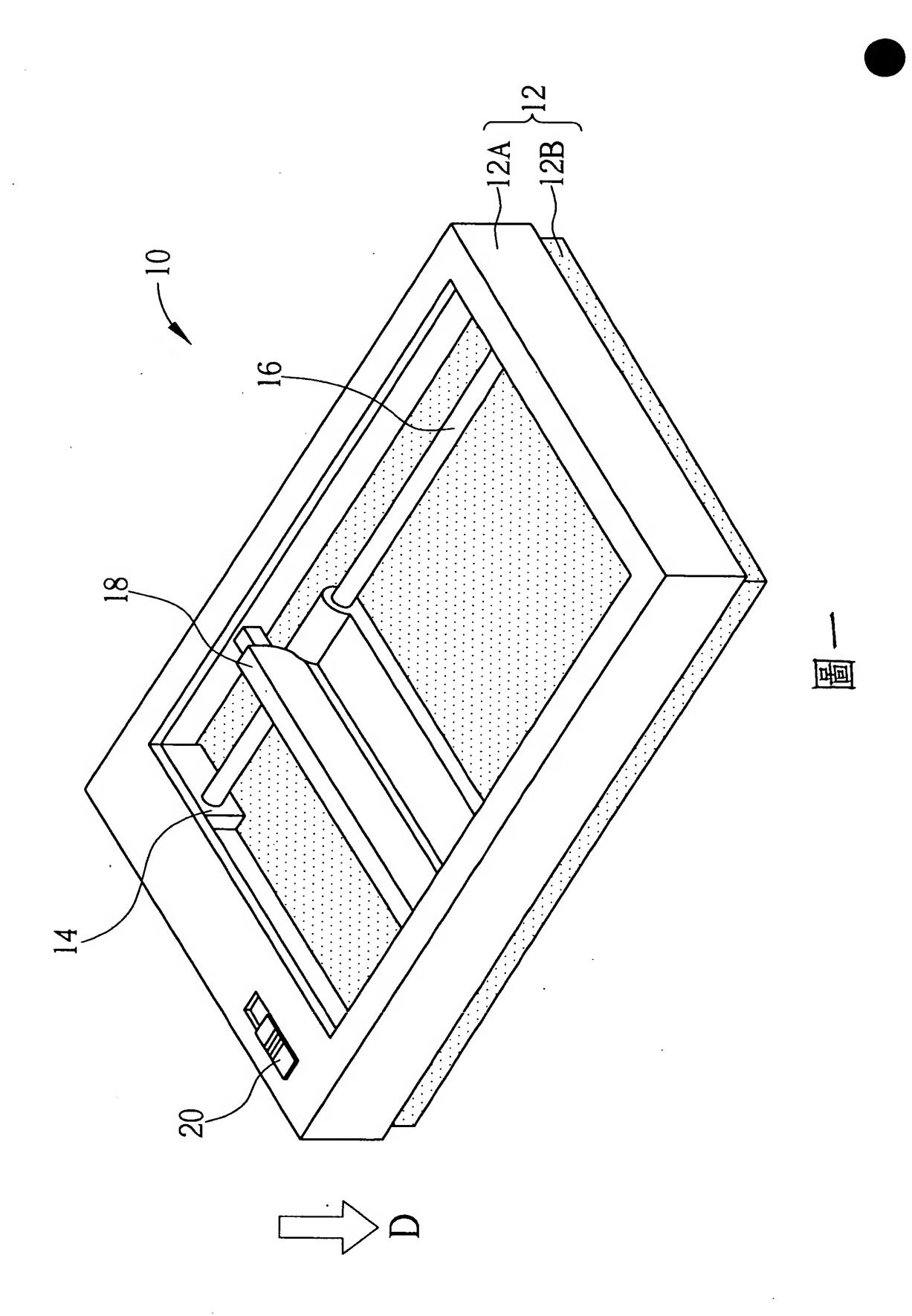
- 5. 如申請專利範圍第1項所述之掃描器,其中若該緩衝墊係安裝於該卡鉤與該掃描模組之間,則該緩衝墊係設置於該掃描模組容納該卡鉤之凹槽內之彈性體。
- 6. 一種掃描器,其包含:
 - 一 殼 體, 其包含一上蓋與一下蓋;
 - 一軸棒座,設置於該上蓋與該下蓋之間;
 - 一軸棒,安裝於該軸棒座上;
- 一掃描模組,以可前後移動之方式安裝於該軸棒上;以及
- 一緩衝墊,安裝於該軸棒座與該軸棒之間,或該軸棒座與該上蓋或該下蓋之間。
- 7. 如申請專利範圍第6項所述之掃描器,其中若該緩衝墊係安裝於該軸棒座與該軸棒之間,則該緩衝墊係為弧狀之彈性體。
- 8. 如申請專利範圍第6項所述之掃描器,其中若該緩衝墊係安裝於該軸棒座與該軸棒之間,則該緩衝墊係為環狀之彈性體。
- 9. 如申請專利範圍第6項所述之掃描器,其另包含一插梢,用來固定該掃描模組。

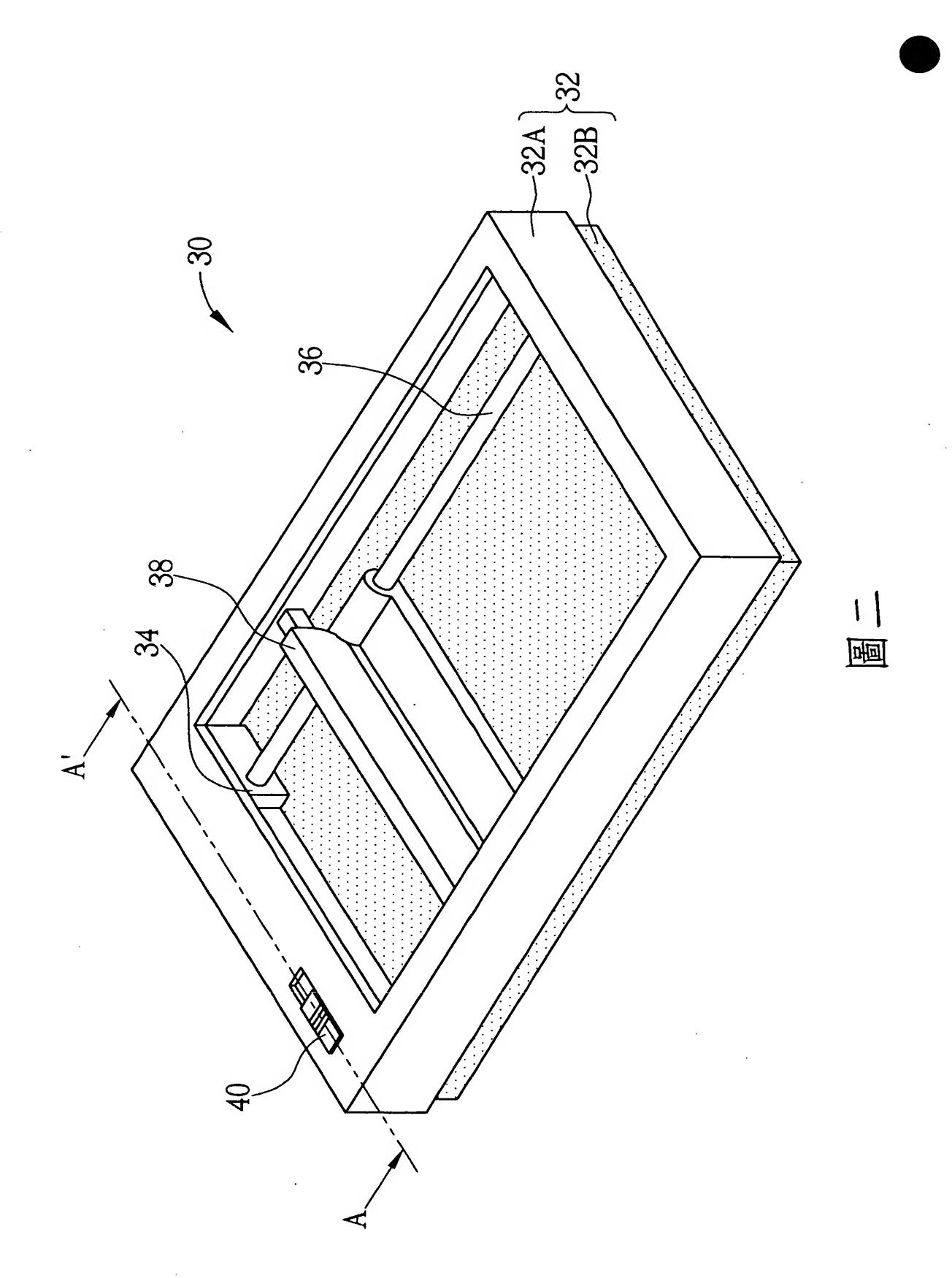


六、申請專利範圍

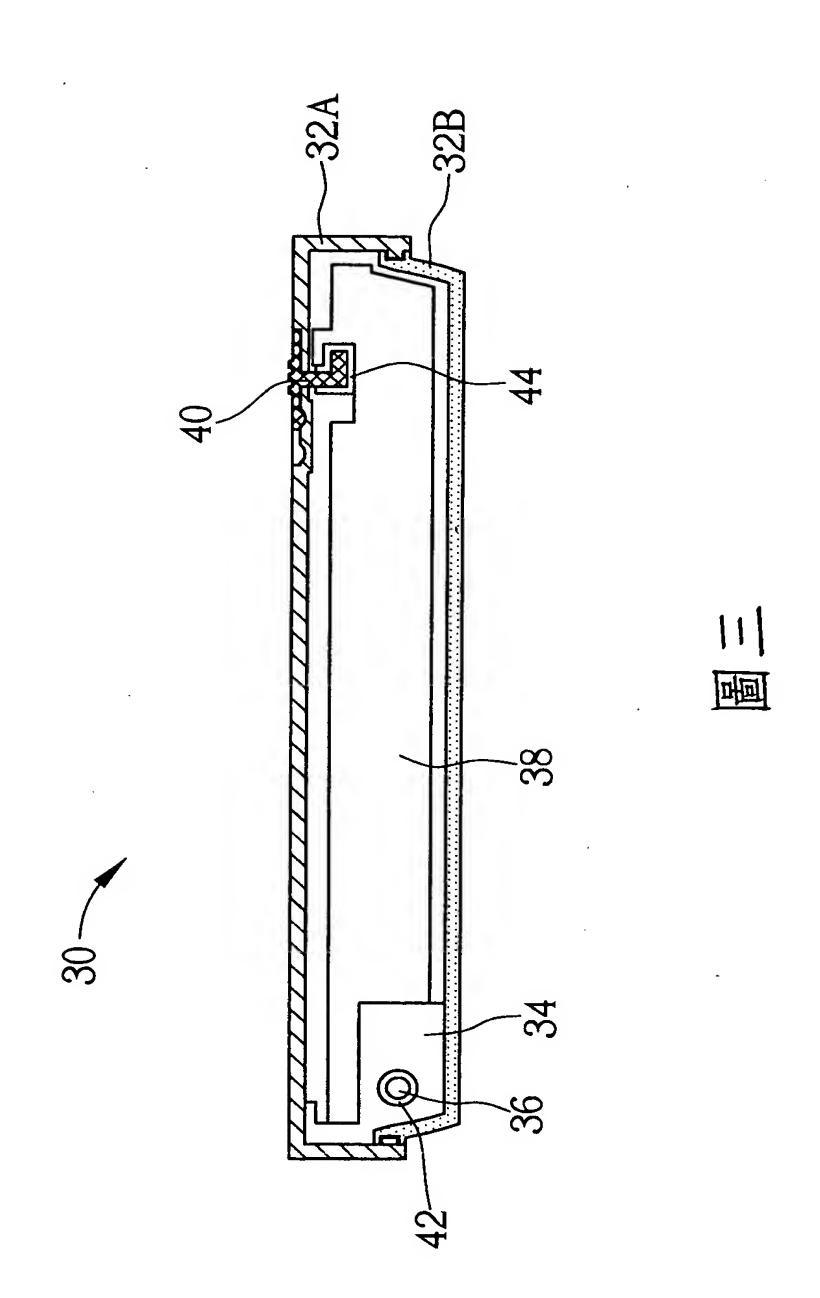
- 10. 如申請專利範圍第9項所述之掃描器,其中該插梢表面係包覆一彈性體。
- 11. 如申請專利範圍第9項所述之掃描器,其中該掃描模組容納該插梢之凹槽內係安裝一彈性體。



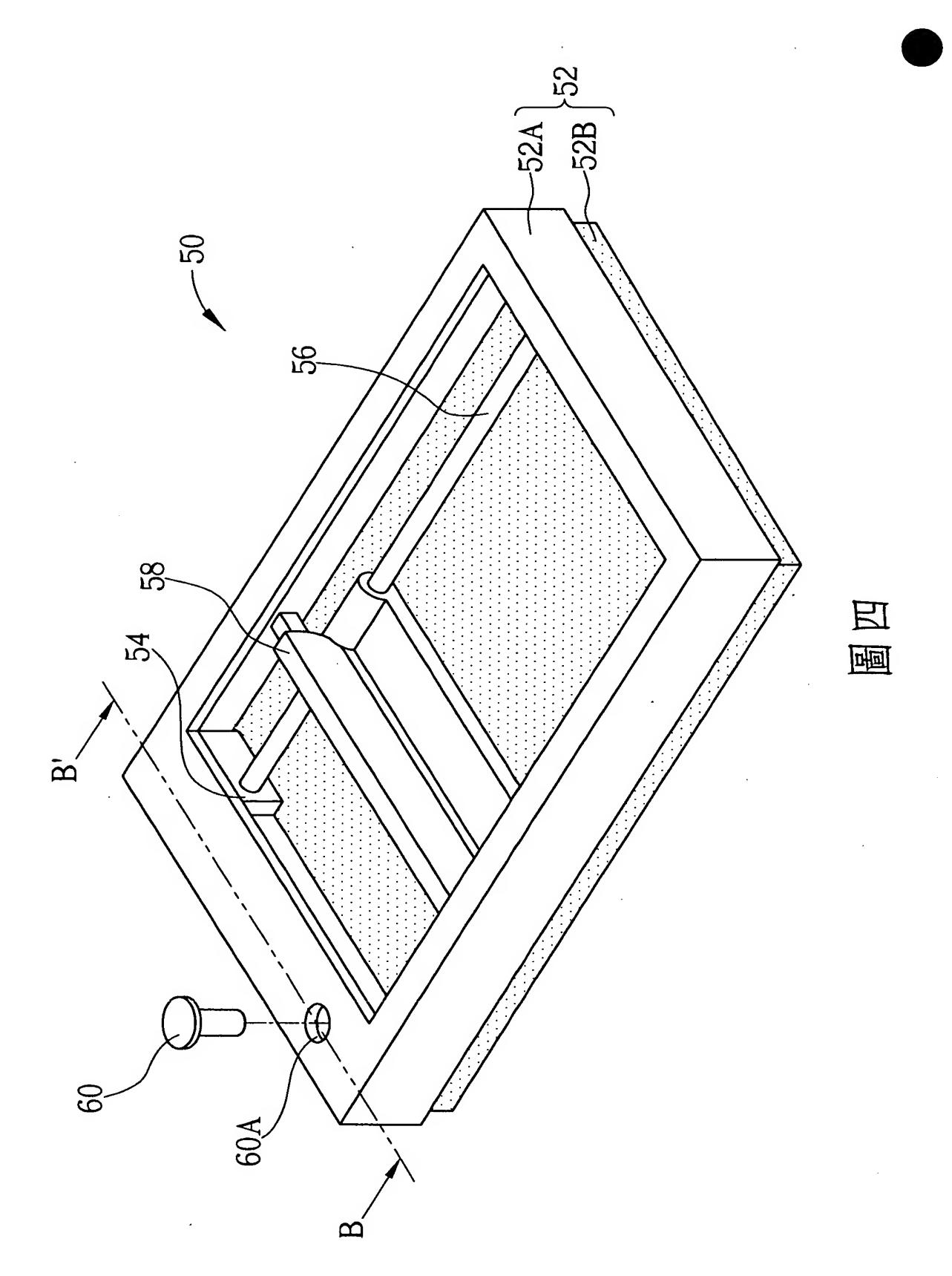


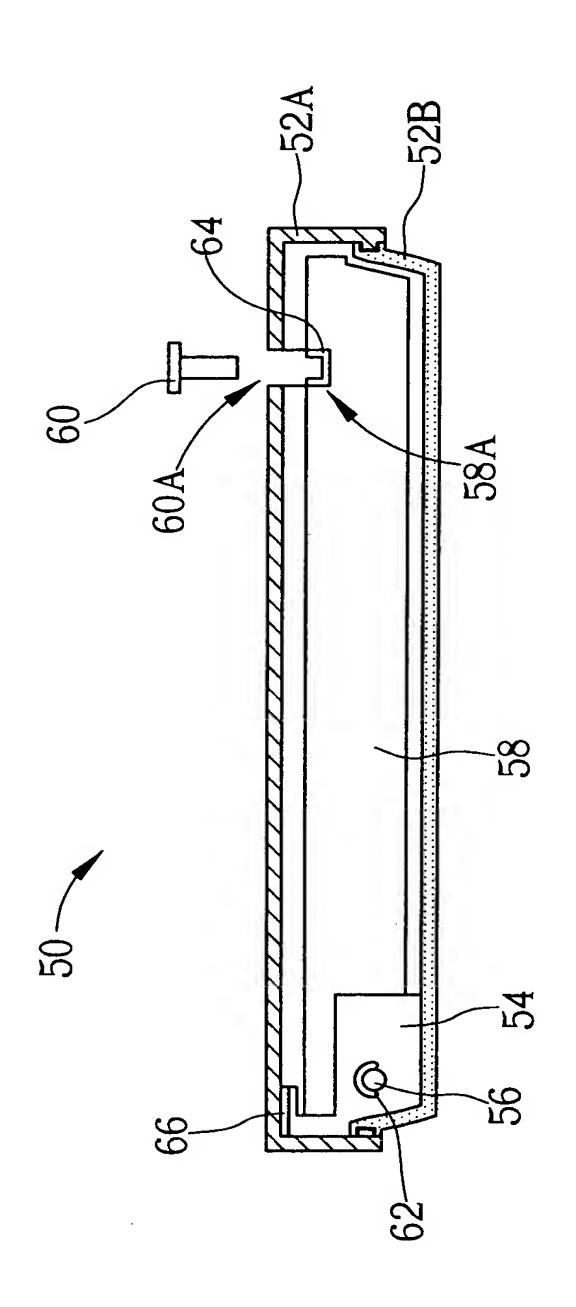


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